



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

[सं. 4] नई दिल्ली, शनिवार, जनवरी 23, 1982 (माघ 3, 1903)  
No. 4] NEW DELHI, SATURDAY, JANUARY 23, 1982 (MAGHA 3, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation.

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 23rd January 1982

### CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated the 12th December 1981 under the heading "PATENTS SEALED" delete 148538.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017.

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

17th December 1981

1426/Cal/81. Phillips Petroleum Company. Process for Re-claiming used motor oil.

1427/Cal/81. F. L. Smidth & Co. A/S. Method of controlling Operation of an Electrostatic Precipitator. (December 17, 1980).

1428/Cal/81. F. L. Smidth & Co. A/S. Method of controlling Operation of an Electrostatic Precipitator. (December 17, 1980).

18th December 1981

1429/Cal/81. Schlumberger Limited. Apparatus for Measuring the flow of fluid in a well.

1430/Cal/81. The Dow Chemical Company. Condensates of Fatty Acids and Hydroxyalkylated Polyalkylenepolyamines as aids in froth flotation of coal.

1431/Cal/81. Richard J. Monro. Improved Heat Generator. 427GI/81

1432/Cal/81. Cselt-Centro Studi F Laboratori Telecommuni-  
cazioni S.P.A. Digital Device for Discriminating  
Digized Speech/Data Signals.

19th December 1981

1433/Cal/81. Paramount Glass Manufacturing Co. Ltd. and  
Nitto Boseki Co. Ltd. Glass Fibre Forming Unit.

1434/Cal/81. Lonza Ltd. Process for the preparation of 3-  
Picoline.

21st December 1981

1435/Cal/81. Union Carbide Corporation. Ethylene Poly-  
mer compositions stabilized against water treeing  
by an organic titanate; and the use thereof as  
insulation about electrical conductors.

1436/Cal/81. Iwatani Sangyo Kabushiki Kaisha. An appa-  
ratus for producing brick shaped dry ice from  
liquid carbon dioxide.

1437/Cal/81. International Lead Zinc Research Organiza-  
tion, Inc. Zinc-Aluminium Alloys and Coatings

22nd December 1981

1438/Cal/81. Shalimar Industries Private Limited Improv-  
ed Bobbin for textile machinery.

1439/Cal/81. United Technologies Corporation. Blade pitch  
angle control for a wind turbine generator.

1440/Cal/81. Formica Corporation. High Pressure Decora-  
tive Laminates Containing an air-laid web of  
Fibres and filler and method of producing same.

1441/Cal/81. Brown & Williamson Tobacco Corporation. An  
improved cigarette filter.

1442/Cal/81. Shell Internationale Research Maatschappij B. V. Column for contacting a slurry with a gas and tray for use in such a column. (December 31, 1980).

1443/Cal/81. Union Carbide Corporation. Male Gametocide Method of Small Grain Plant.

23rd December 1981

1444/Cal/81. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Method and apparatus for stopping an open end rotor spinning apparatus.

1445/Cal/81. Monsanto Company. Alkyl N-Arylsulphenyl N-Dialkylphosphorylmethylglycinates.

1446/Cal/81. Union Carbide Corporation. Improved Catalyst Composition for polymerizing Ethylene.

1447/Cal/81. Maschinenfabrik Rieter A. G. Apparatus for sorting conical bobbin tubes.

1448/Cal/81. Asahi Kasei Kogyo Kabushiki Kaisha. A process for the separation of elements by chromatography.

1449/Cal/81. Gould Inc. Battery Vent Plug

1450/Cal/81. Siemens Aktiengesellschaft. A device for rotary speed determination.

1451/Cal/81. Siemens Aktiengesellschaft. An enclosed medium-voltage electrical load switching arrangement.

1452/Cal/81. Agro-Commercial. An improved Agricultural implement. [Addition to No. 168/Cal/79].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

30th December 1981

230/Mas/81. C. S. Javid. A portable and non-expendable refrigerating element or a container or like item.

31st December 1981

231/Mas/81. Bharat Electronics Limited. A method of manufacturing Twisted Nematic Field Effect Liquid Crystal Analogue Display.

#### ALTERATION OF DATE

149565 }  
230/Cal/81. } Ante-dated the 3rd April, 1978.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Senkar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that

office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 107G, 106.

149551.

Int. Cl. F02m 45/00, 61/00;

F02b 67/00.

MECHANISM FOR CONTROLLING THE TIMING OF INITIATION OF INJECTION OF A FUEL INJECTOR OF AN INTERNAL COMBUSTION ENGINE.

Applicants : CUMMINS ENGINE COMPANY, INC., OF 1000 FIFTH STREET, COLUMBUS, INDIANA, 47201 UNITED STATES OF AMERICA.

Inventor : JULIUS PETER PERR.

Application No. 1783/Cal/77, filed December 29, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A mechanism for controlling the timing of initiation of injection of a fuel injector of an internal combustion engine, the injector comprising a movable plunger which is alternately movable in an injection stroke and in a retraction stroke and is operable to inject fuel during the injection stroke, and movable drive means for moving said plunger, said timing control mechanism comprising housing means having an opening therein, first and second members movably mounted in said opening, said housing means and said members forming a chamber therebetween, one of said members being connected to said drive means and the other of said members being connected to said plunger, a supply passage formed in said housing and leading to said chamber, a variable pressure fluid supply connected to said passage and the pressure of said fluid determining the quantity of fluid flowing into said chamber, a quantity of said fluid present in said chamber forming a hydraulic link between said members, and pressure release means hydraulically connected to said chamber for releasing any fluid therein when the fluid pressure in said chamber reaches a predetermined pressure level during injection.

Comp. Specn. 25 pages.

Drgs. 4 sheets.

CLASS : 161B.

149552.

Int. Cl. E01c 9/10.

LOAD-BEARING FRAME AND COVER ASSEMBLY FOR AN INSPECTION OR ACCESS HOLE IN A ROAD SURFACE.

Applicants : WILLIAM RICHARD HELMS, OF POST BAG 918, GOLDSBORO, NORTH CAROLINA, N.C. 27530, UNITED STATES OF AMERICA.

Inventor : WILLIAM RICHARD HELMS.

Application No. 1791/Cal/77 filed December 30, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A load-bearing frame and cover assembly for an inspection or access hole in a road surface, the assembly comprising :—

- (1) a ring-shaped frame that includes
  - (A) an upper rim surface that is adapted to be placed so that it is substantially level with the road surface;
  - (B) an annular shoulder support surface located inwardly and below said upper rim surface and disposed generally parallel thereto, said shoulder support surface consisting of an outer seating surface and an inner seating surface; and

(C) an inner upright side wall interconnecting said upper rim surface and said shoulder support surface;

(2) a ring-shaped insert member comprising an upper surface, a lower bearing surface, and two side walls interconnecting said upper and lower surface, said lower bearing surface of said insert member resting only upon said outer seating surface of the said shoulder support surface of said ring-shaped frame, said inner seating surface of said annular shoulder surface of said ring-shaped frame being clear of said insert member; and,

(3) a cover having an external peripheral size that is slightly less than the inside peripheral size of said insert member, said cover having an under-surface resting upon said inner seating surface of said annular shoulder support surface of said ring-shaped frame within the inner periphery of said insert member.

Comp Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 140B<sub>1</sub>.

149553.

Int. Cl. C10m 3/08.

#### LUBRICANT COMPOSITIONS.

*Applicants* : THE LUBRIZOL CORPORATION, 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, U.S.A.

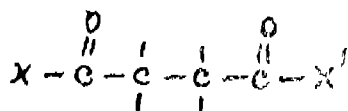
*Inventors* : NORMAN ANTHONY MEINHARDT AND KIRK EMERSON DAVIS.

Application No. 136/Cal/78 filed February 6, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 36 Claims

A lubricating composition comprising an oil of lubricating viscosity and a lubricating additive selected from (i) at least one substituted succinic acylating agent consisting of substituent groups and succinic groups wherein the substituent groups are derived from polyalkene, said polyalkene being characterized by a Mn value of 1300 to about 5000 and a Mw/Mn value of 1.5 to 4, said acylating agents being characterized by the presence within their structure of an average of at least 1.3 succinic groups of formula I—



for each equivalent weight of substituent groups wherein X and X' are the same or different provided at least one of X and X' is such that the substituted succinic acylating agent can function as carboxylic acylating agents, and preferably X and/or X' is usually -OH, -O-hydrocarbyl, O-M<sup>+</sup> where M<sup>+</sup> represents one equivalent of a metal, ammonium or amine cation, -NH<sub>2</sub>, -Cl, -Br, and together, X and X' can be -O- so as to form the anhydride and

(ii) at least one carboxylic derivative of (i) above and obtained by reacting at least one substituted succinic acylating agent with a reactant selected from the group consisting of (a) amine characterized by the presence within its structure of at least one H-N group, (b) alcohol, (c) reactive metal or reactive metal compound, and (d) a combination of two or more of any of (a) through (c), the components of (d) being reacted with said one or more substituted succinic acylating agents simultaneously or sequentially in any order which lubricating additive may be optionally a post treated additive, with a conventional post treating agent.

Comp. Specn. 110 pages.

Drgs. 1 sheet.

CLASS : 131B<sub>1</sub>.

149554.

Int. Cl. E21c 13/00.

#### A METHOD OF CONSTRUCTING ROTARY DRILL BITS.

*Applicants* : SCIAKY BROS., INC., 4915 WEST 67TH STREET, CHICAGO, ILLINOIS 60638, U.S.A.

*Inventors* : ALBERT M. SCIAKY AND WILLIAM R. MELLO.

Application No. 360/Cal/78 filed April 3, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A method of constructing a rotary drill bit from a plurality of like segments of drill bits comprising the steps of :—

machining a cavity into the end of the shank portion of each segment;

placing the said plurality of segments into a clamping fixture with adjoining segment faces separated except at one point and so that registration pins mounted upon said fixture lie within the cavities of shank portions;

disposing rolling cutters mounted upon the bit leg portion of each segment so as to make contact at a point on each of the said cutters periphery with a sizing gauge ring;

applying a force to each of the segments to cause each segment to rotate about an axis passing through its respective registration cavity so as to bring the faces of adjacent segments in abutment while maintaining the gauged surface of the cutters in contact with the sizing gauge ring;

clamping the segments in fixed relationship to one another;

and, welding the abutting faces between segments.

Comp. Specn. 18 pages.

Drgs. 4 sheets.

CLASS : 56A.

149555.

Int. Cl. B01d 3/22, 19/00.

#### DEGASSING COLUMN.

*Applicants* : HOECHST AKTIENGESSELLSCHAFT, D 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

*Inventors* : BERNHARD KUXDORF, KURT WISSEL AND KARL KAISER.

Application No. 422/Cal/78 filed April 18, 1978.

[Addition to No. 145754 (17/Cal/77)].

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A degassing column comprising a vertically elongated tubular shell provided with a plurality of substantially horizontally disposed perforated plates; said plates being vertically spaced within said shell; a gap being left between each of said plates and said shell; each of said plates being provided with at least one eccentrically arranged large hole accommodating a conduit; the perforations in said plates having a diameter of less than 5 mm; the gap, being substantially uniform in width between the periphery of each of said plates and said shell, being maximally 3 mm wide; each conduit penetrating said plates via said large holes comprising a draining shaft in the upper portion of the corresponding plate and a feed shaft in the lower portion below the corresponding plate; and a surface portion of each plate underneath each conduit being impermeable, said impermeable surface portion being at least as large as the internal cross-section of said conduit; in which degassing column each plate is supported by a plurality of wedge mountings fastened to the inside of the shell, and is kept in a horizontal position by wedges forced through an aperture provided in each of said mountings, and each plate is further supported by a multicomponent structure which is arranged in annular fashion level with said mountings and is fastened to the inside of the shell, said structure being interrupted at least in the regions of said mountings.

Comp. Specn. 11 pages.

Drgs. 4 sheets.

CLASS : 33D.

149556.

Int. Cl. B22d 35/00.

A CONTROLLABLE TEEMING VALVE FOR CASTING LADLES.

*Applicants* : PADERWERK GEBR. BENTELER, OF 4794 SCHLOSS NEUHAUS/KREIS PADERBORN (GERMAN FEDERAL REPUBLIC).

*Inventor* : TINNES, BERNHARD.

Application No. 597/Cal/78 filed June 1, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 35 Claims

A controllable teeming valve for casting ladles with a displaceable slide disposed at the outlet opening of the valve, in which the inlet of the valve is formed in an inlet block and has a funnel shape which, before each charging of the ladle, contains highly refractory granular material, and the head of the funnel has a semi-apex angle of less than 60° with respect to the axis of the funnel and a free opening of at least 150 square centimetres and a following neck portion at least 30 mm long.

Comp. Specn. 23 pages.

Drgs. 6 sheets.

CLASS : 143D<sub>3</sub>.

149557.

Int. Cl. B65b 3/00.

B65b 9/00.

A BLANK FOR A LIQUID-TIGHT PACKAGING CONTAINER.

*Applicants* : UNILEVER LIMITED, OF UNILEVER HOUSE, BLACKFRIARS, LONDON EC4, ENGLAND.

*Inventor* : JOHN RICHARD EDWARDS.

Application No. 683/Cal/78 filed June 20, 1978.

Convention date June 24, 1977 (26568/77) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A flat blank for a liquid-tight packaging container comprising an outer member having a central body portion adapted to form a tubular body and flap portions at each end of the body portion connected to the body portion along first preformed fold lines, the flap portions being divided into closure flaps foldable to close the ends of the body portion, a flexible membrane attached to the outer member along a seal line extending around the entire periphery of the membrane, the flexible membrane covering at least 50% of the body portion in the direction of the first preformed fold lines and extending over uninterrupted flap portions adjacent thereto and over a filling and dispensing aperture in the outer member.

Comp. Specn. 16 pages.

Drgs. 4 sheets

CLASS : 126D, 186B.

149558

Int. Cl. H04 1 1/00.

APPARATUS FOR BIT ERROR QUOTA MEASUREMENT IN A DIGITAL TRANSMISSION SYSTEM.

*Applicants* : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : REINHARD HERGERT.

Application No. 782/Cal/78 filed July 14, 1978.

Convention date May 16, 1978/(19723/78) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

Apparatus for measuring the bit error quota in a digital transmission system, said apparatus including means for comparing a first digital test signal transmitted to a receiver where the measurement is to be carried out, with a second digital test signal produced at the receiver and which matches the first test signal before transmission of the latter, said comparison determining comparison differences corresponding to bit errors, means for counting the bit errors over successive intervals of time respectively corresponding to predetermined numbers of transmitted bits of the transmitted signal, means for determining the lengths of said time intervals after the first in dependence on the number of bit errors counted in a preceding time interval, the length of time interval being shortened when the number of bit errors in the preceding time interval is greater than a predetermined first threshold value and being lengthened when said number of bit errors is less than a predetermined second threshold value.

Comp. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 98G &amp; 176L.

149559.

Int. Cl. F28f 1/00.

A CONFIGURATION OF AUGMENTED HEAT EXCHANGER TUBE PERIODICALLY DIVERGING-CONVERGING.

*Applicants* : BIMAL CHANDRA BHATTACHARYYA, DEPARTMENT OF CHEMICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR-721 302, WEST BENGAL, INDIA, AND THE REGISTRAR, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR-721 302, WEST BENGAL, INDIA.

*Inventor* : BIMAL CHANDRA BHATTACHARYYA.

Application No. 918/Cal/78 filed August 19, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A heat exchanger tube periodically diverging-converging in which the characteristic feature comprises tube with continuously varying in diameter alternately increasing and decreasing, having the included angle maximum upto 90°.

Comp. Specn. 4 pages.

Drg. 1 sheet.

CLASS : 55E.

149560.

Int. Cl. A61k 9/00, 27/00.

A METHOD FOR PREPARING A HARD CANDY ANTACID LOZENGES.

*Applicant & Inventor* : ARUN KRISHNA MITRA, OF 720 RADCLIFFE AVENUE, ST. LOUIS MISSOURI 63130, U.S.A.

Application No. 973/Cal/78 filed September 4, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A method for preparing a hard candy antacid lozenge comprising adding calcium carbonate, magnesium carbonate, or mixtures thereof to a sucrose solution, cooking the sucrose solution to remove some of the water, adding corn syrup to form a hard candy base, reducing the water content of the hard candy base to 0.5 percent to 2.0 percent by weight by cooking the hard candy base, converting by known manner the hard candy into lozenges while it is in the plastic stage, the amount of the carbonate added earlier to the sucrose solution being in an amount such that it comprises from 10 percent to 25 percent by weight of the said hard candy base, and wherein said hard candy base without the calcium carbonate comprises from 55 percent to 90 percent by weight of suc-

rose solids and from 45 percent to 10 percent by weight of corn syrup solids.

Comp. Specn. 14 Pages.

Drg. Nil.

CLASS : 33A & D.

149561.

Int. Cl. B22d 11/00, 37/00, 45/00.

DEVICE FOR REGULATING THE FLOW THROUGH A PLUG OF A DISPENSING VESSEL IN A CONTINUOUS CASTING INSTALLATION, USING THE LEVEL OF THE METAL BATH IN THE RECEIVING INGOT MOULD.

*Applicants* : SOCIETE DES ACIERS FINS DE L'EST, OF 57301 MAGONDANGE, FRANCE.

*Inventor* : ROBERT BECUS.

Application No. 1184/Cal/78 filed November 1, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

Device for regulating the flow of molten metal through a taphole and corresponding tapping rod of a distributor in a continuous casting installation, depending on the level of the metal bath fed from the distributor in an ingot mould for such continuous casting, said level being detected by means of a known electronic control device, characterised in that said regulating device comprises, on the said distributor, a mechanical actuating means for moving the tapping rod in relation to the taphole for regulated flow of molten metal through the taphole, a mechanical control system for controlling the actuating means, said control system being disposed near the distributor and adapted to be rapidly connected to, or detached from the said actuating means, a remote control console, with which said control system is mechanically connected for operation thereof, the said remote control console having an electrically operated servo jack control as well as alternative manual control, said servo jack control being influenced by the said electronic control device, and said mechanical control system being provided with an emergency control lever, operable independent of the said remote control console, if and when needed.

Comp. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 65B.

149562.

Int. Cl. H01f 27/12.

RADIATOR FOR COOLING THE OIL OF OIL-FILLED TRANSFORMERS.

*Applicants* : MENK APPARATEBAU GMBH., OF 5439 BAD MARIENBERG FEDERAL REPUBLIC OF GERMANY.

*Inventors* : HERBERT STEUP AND KARL GROSS.

Application No. 1298/Cal/78 filed December 6, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A radiator for air cooling an oil filled transformer, comprising a plurality of radiator sections each formed from a pair of half shell members welded together at their edges and at intermediate regions to define longitudinal passages extending between upper and lower inlet and outlet openings, such openings being in communication with common supply and discharge manifold tubes to supply oil to and collect oil from the opposite ends of each radiator section, in which flow channels are provided which extend diagonally from one longitudinal passage to the next in the region of the upper and lower inlet and outlet openings in the radiator sections.

Comp. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 33D.

149563.

Int. Cl. B22d 41/00.

DEVICE FOR GUNITING THE LINING OF CASTING LADLES.

*Applicants* : VSESOJUZNY GOSUDARSTVENNY INSTITUT NAUCHNO-ISSLEDOVATELSKIH I PROEKTNYKH RABOT OGNEUPORNOI PROMYSHLENNOSTI, OF NABEREZHNYAYA MAKAROVA, 2, Leningrad, USSR.

*Inventors* : ILYA ALEXANDROVICH GOLDBERG, BORIS ALEXEEVICH KOBTSEV, JURY ALEXANDROVICH POLONSKY, BORIS ARKADIEVICH VELIKIN, MAMUKA SHALVOVICH MINDELI, GURAM BENEDIKTOVICH KASHAKASHVILI, SHALVA VASILIEVICH POPI ASHVILI, AND OTAR NIKOLAEVICH SULADZE.

Application No. 459/Cal/79 filed May 4, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A device for guniting the lining of casting ladles comprising a platform with a carriage mounted thereon by means of a guide and having a nozzle for supplying the gunite, wherein the guide has a curvature corresponding to the lining of the casting ladle, is mounted on the platform so as to extend downward from the platform into the casting ladle, is capable of rotation about its vertical axis and is coupled to a means mounted on the platform and adapted for radial displacement of the guide with respect to said vertical axis, the platform being provided with adjustable supports for fixing it on the ladle.

Comp. Specn. 12 pages.

Drgs. 9 sheets.

CLASS : 179C.

149564.

Int. Cl. A61j 5/00.

MACHINE FOR CONNECTING CAPSULE BODIES AND CAPS.

*Applicants* : CAPSUGEL AG, ENGELGASSE 11, CH-4010 BASEL/SWITZERLAND.

*Inventor* : PAUL JEAN HENRI MAES.

Application No. 704/Cal/79 filed July 7, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A machine for connecting capsule bodies and caps comprising at least one sleeve for receiving and retaining a cap and at least one plunger reciprocable coaxially with respect to the sleeve in which the plunger has a plunger head which is axially movable with respect to the plunger and is adapted to fit within a cap, and further includes biasing means adapted to urge the plunger head in a direction which, in use, is towards the cap, the plunger head and the plunger together at least partially defining an annular space adapted to retain sealing fluid or to communicate with a supply duct for sealing fluid, the machine being constructed and arranged such that when the plunger head is urged against the interior of a cap sealing fluid is applied to the interior of the cap.

Comp. Specn. 21 pages.

Drg. 4 sheets.

CLASS : 131B.

149565.

Int. Cl. E21c 13/00.

AN APPARATUS FOR MANUFACTURING ROTARY DRILL BITS.

*Applicants* : SCIACKY BROS. INC. 4915 WEST 67TH STREET, CHICAGO, ILLINOIS 60638, U.S.A.

*Inventors* : ALBERT M. SCIACKY AND WILLIAM R. MULLIO.

Application No. 230/Cal/81 filed March 3, 1981.

Division of Application No. 360/Cal/78 filed April 3, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

An apparatus for manufacturing a rotary drill bit from a multiplicity of segments each provided with a rotatable cutter comprising :

a vacuum chamber having an opening at one end and provided with a removable door arranged to make the said vacuum chamber airtight;

the said door provided with a rotatable carriage holding a clamping fixture for supporting and clamping the parts to be welded;

a set of pins mounted upon the said fixture for locating and registering the said segments to be welded with respect to each other;

means for sizing the segments to be welded, after they are located on the pins; so that the outer periphery of the drill bit cutters at a desired plane will be sized to a desired dimension;

a multiple jaw chuck for clamping the said segments mounted upon the said fixture, the said chuck provided with a set of soft jaws to which are attached hard surfaced jaws arranged so as to apply a force to the said segments so as to cause each segment to rotate about the vertical axis of its respective locating pin; means for supporting the said means for sizing mounted in fixed relation to the said fixture;

a set of spring installed between the hard jaws and the soft jaws;

means for moving the said door away from the said opening of the vacuum chamber so as to allow access to the chamber interior and fixture;

and, means installed on said vacuum chamber for welding the several parts of the drill bit assembly one to another.

Comp. Specn. 25 pages.

Dwg 2 sheets.

Int. Cl. F16h, 37/12.

149566.

Int. Cl. F16h, 37/12.

A POSITIVE INFINITELY VARIABLE SPEED DRIVE UNIT.

*Applicant & Inventor* : HEMANT GANESH KELKAR, 571 SHANIWAR PETH, NEAR KFSARI OFFICE, POONA-30, MAHARASHTRA, INDIA.

Application No. 318/Bom/1978 filed Oct 28, 1978.

Complete Specification left on Jan 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 18 Claims.

A positive infinitely variable speed drive unit, wherein the rotational speed of its output shaft, in either direction of rotation varies steplessly within certain limits and the said drive unit comprises :

(a) a unidirectional clutch unit characterised in that at any instant it rotates freely in one direction and is prevented from rotating in the reverse direction,

(b) a rotor rotatably coupled to a plurality of rotary members like a flywheel having a large mass moment of inertia is rotatably coupled to the said output shaft, and the said rotor and the said unidirectional clutch unit are rotatably coupled with each other via a plurality of pushers,

(c) the said plurality of the pushers being operated, by actuating means operatively coupled with the said pushers, and which pushers have a cyclic motion, and the said pushers are operatively coupled with the said rotor and the said unidirectional clutch unit so as to exert forces on the said unidirectional clutch unit and the said rotor, and hence to rotate them in a direction in which the said unidirectional clutch unit is free to rotate so as to rotate the said output shaft continuously.

(d) means operatively connected to the said pushers to vary the cyclic motion of the said pushers so as to vary the

rotational speed of the said output shaft by varying the rotational speed of the said unidirectional clutch unit and the said rotor, and

(e) means connected with the said output shaft to change its direction of rotation.

Provisional Specification-5 pages, Drawing sheets NIL

Complete specification-33 pages, Drawing 7 sheets.

CLASS : 13A.

149567.

Int. Class-B65d 11/00.

"PROCESS OF MAKING IMPROVED POLYETHYLENE BAG."

*Applicant* : ANIL JAYKRISHNABHAI JERAJANI 4, CHANDRALOK, BHALEJ ROAD, ANAND-388 001 (GUJARAT STATE) INDIA.

Application No. 321/Bom/1978 filed Nov. 1, 1978.

Complete after Provisional left on Jan 8, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

## 4 Claims

A process of making an eight-cornered bag from a heavy duty low density polyethylene tube comprising : cutting the tube according to the desired size of the bag to be made; flattening the said tube in the form of a rectangle having two layers, which are closed along the longitudinal sides of the rectangle and open at both ends, said open ends being given several folds with cutting of a portion from one of the layers at each of said ends such as to define a hexagon at each end, each of said hexagons having two sharp corners along a straight line and being symmetrical about said straight line, two of the folds lying normal to said straight line and in between the other four corners of the hexagon, and the free edges of both the said layers of the flat tube at each end lying over one another and at one side of each of said hexagons to define a continuous line of said edges at each end of the flat tube; forming an opening by cutting along one of the said two folds at one end of the flat tube; inserting a flattened light-weight polyethylene tube through said opening and adjacent portion of the said free edges; sealing all the said free edges along the said continuous line at both ends of the flat tube including said opening and the said right-weight polyethylene tube inserted there through, with a protecting sheet being held within said light-weight tube, during the sealing so that the said light-weight tube is fitted inside the polyethylene bag, so made by the aforesaid folding and sealing, but two ends of the light-weight tube are kept open, one said open end lying within the bag and the other said open end being fitted around the said opening, made along one of the said two folds, thereby defining a spout for filling of material within the bag as well as being capable of acting as an air-tight valve in the event of the bag being filled.

Provisional specification 4 pages

Drawing 2 sheets.

Complete specification 9 pages

Drawing 4 sheets.

CLASS : 80-A+B

149568.

Int. Cl. B01d 23/14.

IMPROVEMENTS IN OR RELATING TO AN EQUIPMENT FOR PURIFICATION OF LIQUIDS BY FILTRATION.

*Applicant & Inventor* : (DR) SADASHIV VASUDEO PATWARDHAN 2047, SADASHIVE PETH, POONA-411 030. MAHARASHTRA, INDIA.

Application No. 323/Bom/78 filed Nov., 1978.

Complete specification left Feb. 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

## 4 Claims

An equipment for carrying out filtration of liquids in which influent liquid is pretreated with coagulant or disinfectant chemicals comprising a container or vessel *inter alia* having

a system of inlet/s to admit the influent liquid into the container by following a desired path; a filter media through which incoming liquid percolates down; and a system of outlet/s to collect the filtered liquid and to take it out of the container characterised in that it has in combination a closed chamber at the top of the container containing coagulants and/or disinfectants and having an inlet for refilling the said chamber with the coagulants and/or disinfectants, the said chamber also having one or more outlet openings over which the influent liquid entering the aforesaid container passes to produce a suction so that the coagulants and/or disinfectants continuously and proportionately diffuse into the influent liquid, and wherein the filter media consists of highly adsorptive material like activated carbon or anthracite or hard coke or specially treated sand or the like or the combination thereof.

Provisional specification 13 pages, drawing sheet—1.

Complete specification 13 pages, drawing sheet—nil.

Ind. Cl. 98C+E.

149569.

Int. Cl. F28d 15/00.

Title—A FLUID HEATER FOR HEATING A PLURALITY OF FLUIDS SIMULTANEOUSLY.

*Applicant* : THERMAX (INDIA) PRIVATE LIMITED, OF CHINCHWAD, POONA-411019, MAHARASHTRA, INDIA.

*Inventors*—(1) ARDESHIR SORABJI BHATHENA

(2) DR. NARENDRA DATTATRAYA JOSHI

Application No. 339/Bom/78 filed Nov. 24, 1978.

Complete Specification left Nov. 15, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

#### 4 Claims

A fluid heater for heating a plurality of fluids simultaneously comprising a furnace; one or more heat exchangers provided in the radiation zone inside the said furnace and wherethrough one or more fluids is or are circulated for heating the said one or more fluids by radiation; one or more heat exchangers provided outside the said furnace, the said one or more heat exchangers provided outside the said furnace being connected to the said furnace and being optionally interconnected for flue gases from the said furnace to flow therethrough, one or more fluids being circulated through the said one or more heat exchangers provided outside the said furnace for heating the said one or more fluids by the said flue gases; and damper means for regulating flow of flue gases through the said one or more heat exchangers provided outside the said furnace.

Provisional Specification 5 pages, Drawing—1 sheet.

Complete Specification 7 pages, drawing—1 sheet.

CLASS : 146-A

149570.

Int. Cl. G01c 15/00.

IMPROVED LEVELLING STAFF.

*Applicant & Inventor* : BHIMRAO GABAJI TATHE, PJOT NO. 32 NEW SHANTINIKETAN COLONY, AURANGABAD-431001, MAHARASHTRA, INDIA

Application No. 121/Bom/79 filed May 3, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

#### 2 Claims.

An improved levelling staff for measuring the levels at different points of the ground comprising a conventional levelling staff wherein a metallic extension channel is fitted at the top the said staff being fitted with a reel at the top of the metallic extension and another at the bottom of the staff on the rear side and a calibrated cotton belt being stretched over the top and bottom reels on the rear side of the staff so as to be rolled on the reels at its either ends for adjusting its position.

Complete specification 7 pages, drawing sheet—1.

CLASS : 172-F&I

149571.

Int. Cl. D01h 13/00.

IMPROVED SLUB CATCHER.

*Applicant* : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

*Inventors* : MUNISHWAR CHANDER SOOD, DAMODARAN RAMKRISHNAN.

Application No. 168/Bom/79 filed June 7, 1979.

Complete specification left September 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 13 Claims.

A slub catcher comprising a platform and a fixed or oscillating blade disposed against the said platform such as to maintain a predetermined fixed or adjustable clearance between the cutting edge of the blade and the platform for allowing free movement therethrough of yarn of desired diameter corresponding to the said predetermined clearance, while preventing access therethrough of slubs in the yarn, characterised in that a slub shifting means such as herein described is provided on the said platform at its anterior end, through which end the yarn is fed, and caused to be slid over the surface of the platform in the normal course, the said slub shifting means being adapted to cause upward shift of slubs occurring in the yarn, in relation to the normal plane of movement of the yarn through the said clearance, and thereby reducing the said clearance in the vicinity of the cutting edge of the blade for prompt and effective action of the blade in breaking the yarn at its said slub portion.

Provisional specification 7 pages, drawing sheet—1.

Complete specification 12 pages, drawing sheet—nil.

CLASS : 80-1.

149572.

Int. Cl. B01d 35/00.

"DUPLEX BASKET STRAINER/FILTER".

*Applicant* : SHRI DILIP KUNDANLAL JHAVERI, Shri SHIRISH KUNDANLAL JHAVERI, SHRI RAJENDRA KUNDANLAL JHAVERI, ALL INDIAN NATIONALS, TRADING AS M/S OTOKLIN FILTERS OF INDIA, 1006, PRASAD CHAMBERS, NEAR ROXY CINEMA, BOMBAY-400 004, MAHARASHTRA, INDIA.

*Inventor* : SHRI DILIP KUNDANLAL JHAVERI.

Application No. 291/BOM/79 filed October 18, 1979.

Complete specification left January 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 4 Claims

An improved duplex basket strainer/filter for filtering fluids and the like which consists of two basket strainers/filters each having an in-let and an out-let nozzle pipe, one two way in-let header and one two way out-let header, each header consists of a cylindrical shell having two nozzle pipes, each one connected near the ends of the shell respectively and another to the centre of the shell towards diametrically opposite side, the cylindrical shell having inside a valve disc mounted on a shaft and adapted to move to and fro by means of a hand wheel mounted on the lower end of a sleeve surrounding the lower end of the shaft, the in-let nozzle pipes of both the basket strainers/filters being connected respectively to the two end nozzle pipes on the in-let header and its central nozzle pipe being connected to the pipe supplying the fluid to be filtered, the out-let nozzle pipes of both the basket strainers/filters being connected respectively to the two end nozzle pipes of the out-let header and its central

nozzle pipe being connected to the out-let pipe delivering filtered fluid.

Provisional Specification 3 pages, drawing 1 sheet.

Complete specification 9 pages, drawing 7 sheets.

#### PATENTS SEALED

144636 146436 147352 148099 148258 148259 148371 148612  
148640 148657 148658 148663 148685 148687 148688 148691  
148696 148698 148706 148709 148712 148851.

#### PRIORITY DATE DISALLOWED UNDER RULE 6 OF THE PATENTS RULES, 1972.

Priority date claimed in the patent application No. 912/Cal/81 filed by International Chemical Company Limited has been disallowed by the Joint Controller of Patents & Designs *vide* his order dated the 18th December, 1981.

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
142256 (14-12-72)	Process for producing one or more resin-coated rice hulls capable of fabrication into composite articles.
143234 (12-01-76)	Process for making urea from ammonia and carbon dioxide.
143236 (28-09-76)	Hydrogen fluoride dealkylation process.
143253 (22-12-76)	Dezincing of steel scrap by leaching with inhibitor.
143255 (03-09-74)	Process and apparatus for producing gas from gas producing material.
143288 (25-07-75)	Process for improving the filtration characteristics of neutralized liquor from viscose process.
143296 (23-06-75)	Method of manufacture of hydro-desulfurization catalyst.
143411 (07-11-75)	Improvement in or relating to process for anodic phosphating of steel substrate and electrolytic cell therefor.

#### RENEWAL FEES PAID

106010 108825 108874 108951 108985 109164 109247 109403  
110919 113773 113942 114035 114043 114101 114303 114821  
114907 119412 119434 119609 119623 120627 122925 124654  
124686 124737 124747 124849 124964 125177 125787 127593  
129882 130070 130088 130099 130824 132218 134206 134208  
134237 134238 134299 134392 134475 134949 134950 134951  
136137 136138 136351 137020 137093 137724 137731 137748  
137996 138247 138449 139044 139721 139730 140296 140305  
140306 140366 140428 140487 140899 140971 141030 141087  
141442 141443 141565 141682 141683 141684 141713 141940  
142124 142125 142354 142779 142881 142886 143234 143279  
143335 143604 143727 143853 144008 144122 144344 144389  
144759 144926 144932 144933 144996 145004 145036 145169  
145219 145336 145754 145866 145870 145871 145983 146010  
146014 146150 146204 146671 146855 146870 146918 146940  
146959 146985 146988 146999 147588 147805 148003 148232.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 151185. Anil Industries of Mamun Bhanja Street, Aligarh 202001 (U.P.), a partnership firm. "Padlock". September 29, 1981.

Class. 1. No. 151186. Anil Industries of Mamun Bhanja Street, Aligarh 202001 (U.P.), a partnership firm. "Padlock". September 29, 1981.

Class. 1. No. 151209. Metals & Allied Products of 4/43, Kapadia Chambers, 51, Broach Street, Carnac Bunder, Bombay-400 009, Maharashtra, India, Indian Partnership Firm. "Juicer". October 12, 1981.

Class. 3. No. 150599. Binod Kumar Dalmia & Sandipkumar Mahansaria, Indians of 8, Camac Street, Room-15, Floor 8, Calcutta-700 017, West Bengal, India. "Bottle". March 24, 1981.

Class. 3. No. 151011. Rajinder Nath of Industrial Estate, Ambala City, 134002, Haryana, India. "A coupling member for use in an electrically driven member for driving attachments such as centrifugal juice extractor, kneader or slicer and grater", July 20, 1981.

Class. 3. No. 151012. Rajinder Nath of Industrial Estate, Ambala City, 134002, Haryana, India. "An electrical drive housing for attachments such as a blender and liquidizer, grinder, centrifugal juice extractor etc." July 20, 1981.

Class. 3. No. 151142. Minimax Enterprises of 5, Divya Darshan, 5, Vallabh Nagar Society, 3th floor, Juhu Scheme, Vile Parle (West), Bombay-400056, Maharashtra, an Indian Partnership Firm. "Paper Clip with permanent Calender". September 8, 1981.

Class. 3. No. 151161. Victor Equipments Private Limited of 1 Amar Industrial Estate, Kurla Andheri Road, Saki Naka, Andheri, Bombay-400072, Maharashtra. "Plastic Rack". September 19, 1981.

Class. 3. No. 151162. Victor Equipments Private Limited of 1 Amar Industrial Estate, Kurla Andheri Road, Saki Naka, Andheri, Bombay-400072, Maharashtra. "Container". September 19, 1981.

Class. 3. No. 151175. Engineers Udyog, an Indian Partnership Firm. "Manufacturers of 1st floor, 3, Burtolla Street, Calcutta-700007, West Bengal, India. "A calling bell". September 28, 1981.

Class. 4. No. 151158. Trescho Incorporation of 290/288, Nagdevi Street, 1st floor, Room No. 12-A, Bombay-400003, Maharashtra an Indian Partnership Firm. "Bottle with Cap". September 19, 1981.

Class. 8. No. 150607. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 8. No. 150608. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 8. No. 150609. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 8. No. 150610. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 8. No. 150611. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 8. No. 150615. H. A. G. Carpets Pvt. Ltd. of 143, Kashab Chandra Sen Street, Calcutta-700009, West Bengal, Indian Company. "Carpet". March 28, 1981.

Class. 12. No. 151144. Purolator India Limited of 1, Sri Anrobindo Marg, New Delhi-110016, India, an Indian Company. "Fuel Filter Insert". September 14, 1981.

S. VEDARAMAN.

Controller General of Patents,  
Designs and Trade Marks.